Substitute for form 1449A/PTO				Complet if Kn wn			
	• • • • •	ATEME	TION DISCLOSURE NT BY APPLICANT any sheets as necessary)	Application Number	Continuati n 1 09/456,940		
			•	Filing Date	June 27, 2003		
				First Named Inventor	Gjalt W. Huisman		
				Group Art Unit			
				Examiner Name			
et	1 1	of	6	Attorney Docket Number	MBX 025 DIV CON		

			U.S. PATENT DOCUM	IENTS	
xaminer Initials*	Cite No. ¹	US Patent Documer	t Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Coo (if kno			
RO		4,326,052	Kang, et al.	04-20-1982	
		4,336,334	Powell, et al.	06-22-1982	
		4,377,636	Kang, et al.	03-22-1983	
		4,385,126	Chen, et al.	05-24-1983	
		4,400,467	Bauer, et al.	08-23-1983	
		4,477,654	Holmes, et al.	10-16-1984	
		4,503,084	Baird, et al.	03-05-1985	
	I	4,786,598	Lafferty, et al.	11-22-1988	
		4,948,733	Easson, et al.	08-14-1990	
		4,977,089	Kovacevic, et al.	12-11-1990	
		5,059,536	Page, et al.	10-22-1991	
		5,096,819	Page, et al.	03-17-1992	
		5,225,227	Yalpani	07-06-1993	
1		5,229,158	Yalpani	07-20-1993	
RV		5,245,023	Peoples, et al.	09-14-1993	

					F	FOREIGN PATENT DOCUMENT	Ŝ		
	Cite No.1		Foreign Patent Docur	ment		Date of Publication of Cited Document MM- DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T	
			Office.3	Number*	Kind Code ⁵ (if known)			•	
RA	7		EP	0 176 320		Eli Lilly & Co.	04-02-1986		
			PCT	WO 91/13207		Pulp & Paper Research Institute of Canada	09-05-1991		
			PCT	WO 92/18553		Kohap, Ltd.	10-29-1992		
	\Box		PCT	WO 92/21708		Kirin Beer Kabushiki Kaisha	12-10-1992		
T	T		PCT	/WO 94/10289		Zeneca, Ltd.	05-11-1994		1
K V			PCT	WO 94/24302	1	Zeneca, Ltd.	10-27-1994		†
			111	11/		A	·		

Examine Signature	M					Date Cor	sidered	3/1/06					
.=						_	 						

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SENT TO: Assistant Commission for Patent, Washington, DC 20231.

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

¹ Unique citation designation number ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant to place a check mark here if English language Translation is attached.

Under the Pep	perwork Reduction Act of Substitute fo		s are required to respond to a collection of information u A/PTO		plete if Kn wn
	**	ATEME	TION DISCLOSURE NT BY APPLICANT any sheets as necessary)	Applicati n Number	Continuation f 09/456,940
1		(USO GS III	ary shoots as noodssary,	Filing Date	June 27, 2003
ľ				First Named Inventor	Gjalt W. Hulsman
				Group Art Unit	
				Examiner Name	
Sheet	2	of	6	Attorney Docket Number	MBX 025 DIV CON

			U.S. PATENT DOCUM	IENTS	
		US Patent Document	Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	Number Kind Code (if known)				
2 W		5,266,470	Senior, et al.	11-30-1993	
1		5,290,910	Shiotani, et al.	03-01-1994	
$\neg \vdash$		5,292,860	Shiotani, et al.	03-08-1994	
		5,302,525	Groleau, et al.	04-12-1994	
		5,334,520	Dennis	08-02-1994	
		5,344,769	Witholt, et al.	09-06-1994	
		5,346,817	Akiyama, et al.	09-13-1994	
_		5,354,671	Pollock	10-11-1994	
		5,364,778	Byrom	11-15-1994	
$\neg \top$		5,371,002	Dennis, et al.	12-06-1994	
		5,434,062	Groleau, et al.	07-18-1995	
		5,472,870	Pollock, et al.	12-05-1995	
		5,512,456	Dennis	04-30-1996	
T		5,518,907	Dennis	05-21-1996	
PF		5,563,051	Ellwood, et al.	10-08-1996	

					FOREIGN PATENT DOCUMEN	TS		
Examiner Initials*	Cite No. ¹		Foreign Patent Docur	nent	Applicant of Cited Document	Date of Publication of Cited Document MM- DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Τ*
		Office.3	Number	Kind Code ⁵ (if known)				
RY		PCT	WO 95/10614	7	GX Biosystems A/S	04-20-1995		
		PCT	WO 95/34643		Wackernagel	12-21-1995		Т
		PCT	WO 96/00263		Stichting Onderzoek En Ontwikkeling Noord Nederland	01-04-1996		
RK		PCT	WO 96/17369		Cookson Group, PLC	06-06-1996		
- 1			10					<u> </u>
		\mathbf{I}		I ,				
Examine Signature	\neg		the thank		Da	te Considered 2	11/66	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SENT TO: Assistant Commission for Patent, Washington, DC 20231.

¹ Unique citation designation number ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant to place a check mark here if English language Translation is attached.

Under the Papa	enwork Reduction Act o	of 1995, no persons	are required to respond to a collection of information u	ntess it contains a valid OMB control number	
	Substitute fo				plete if Kn wn
	•	ATEME	TION DISCLOSURE NT BY APPLICANT ny sheets as necessary)	Applicati n Number	Continuati n f 09/456,940
	•	•	,	Filing Date	June 27, 2003
				First Named Inventor	Gjalt W. Huisman
				Group Art Unit	
				Examiner Name	
Sheet	3	of	6	Attorney Docket Number	MBX 025 DIV CON

			U.S. PATENT DOCUM	IENTS		
Examiner Initials*	Cite No. ¹	US Patent Document	Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
	Number Kind Code ² (if known)					
e V		5,663,063	Peoples, et al.	09-02-1997		
7		5,679,556	Homma, et al.	10-21-1997		
		5,705,368	Murofushi, et al.	01-06-1998		
		5,792,630	Tonouchi, et al.	08-11-1998		
		5,821,109	Ben-Bassat, et al.	10-13-1998		
Ph		5,854,034	Pollock, et al.	12-29-1998		
		 		 	"	

				F	OREIGN PATENT DOCUMEN	ΠS		
Examiner Initials*	Cite No. ¹		Foreign Patent Docu	ument		Date of Publication of Cited Document MM- DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Τ°
		Office.3	Number	Kind Code ⁵ (if known)				
			AAA	-2				
Examine Signature		16	Mill		Di	ate Considered	11/06	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SENT TO: Assistant Commission for Patent, Washington, DC 20231.

¹ Unique citation designation number ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant to place a check mark here if English language Translation is attached.

	Substitute for	form 1449A/PT	O	Complet if Known			
•	STATE	MENT BY	DISCLOSURE / APPLICANT	Applicati n Number	Continuati n f 09/456,940		
	(333	,	, , , , , , , , , , , , , , , , ,	Filing Date	June 27, 2003		
				First Named Inventor	Gjalt W. Huisman		
				Group Art Unit			
				Examiner Name			
et .	4	of	6	Attorney Docket Number	MBX 025 DIV CON		

		OTHER ART - NON PATENT LITERATURE DOCUMENTS	
Examiner's Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T²
64		AHRENHOLTZ, et al., "A conditional suicide system in Escherichia coli based on the intracellular degradation of DNA," Appl. Environ. Microbiol. 60(10): 3746-3751 (1994).	
		ATKINSON & MAVITUNA, Biochemical Engineering and Biotechnology Handbook, 2rd ed., Stockton Press: New York (1991).	
\top		CHEN, et al., "Bacterial alginate produced by a mutant of Azobacter vinelandii," Appl. Environ. Microbiol. 49: 543-546 (1985).	
		CHEN, et al., "Anaerobic degradation of veratrylglycerol-β-gualacyl ether and gualacoxyacetic acid by mixed rumen bacteria," Appl. Environ. Microbiol. 50(6): 1451-1456 (1985).	
		DELEST, "Fermentation technology of microbial polysaccharides," in <u>Gums and Stabilisers for the Food Industry 5</u> , (Phillips, et al., eds.) IRL Press: New York, pp. 301-313 (1989).	
		DOI, "Microbial synthesis, physical properties, and biodegradability of polyhydroxyalkanoates," Macromol. Symp. 98: 585-599 (1995).	
	ļ	DOUGHERTY & VAN DE RIJN, "Molecular characterization of hasA from an operon required for hyaluronic acid synthesis in group A streptococci," J. Biol. Chem. 269(1): 169-175 (1994).	
		FIALHO, et al., "Conjugal transfer of recombinant plasmids into gellan gum-producing and non-producing variants of <i>Pseudomonas elodea</i> ATCC 31461," Lett. Appl. Microbiol. 12(3): 85-87 (1991).	
		HASSLER & DOHERTY, "Genetic engineering of polysaccharide structure: production of variants of xanthan gum in Xanthomonas campestris," Biotechnol. Prog. 6(3): 182-187 (1990).	
RV		HERRERO, et al., "Transposon vectors containing non-antiblotic resistance selection markers for cloning and stable chromosomal insertion of foreign genes in gram-negative bacteria," <i>J. Bacteriol.</i> 172: 6557-6567 (1990).	

Examiner's Signature	1/ Colore	Date Considered	3/1/0	6
	Initial ir reference considered, whether or not citation is in conformance with MF of this form with next communication to applicant.	EP 609. Draw line throug	gh citation if not in	conformance and not considered

Date Considered

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you require to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Examiner's

¹ Unique citation designation number ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant to place a check mark here if English language Translation is attached.

Planta Ima	a nin din	a fal incido	this box -

	PR	D/SB08A	(10-96
Approved for use through 10/31/	99.	OMB 06	51-0031
Peterd and Trademark Office: U.S. DEPARTME	M	OF COM	MERCE

Substitute for form 1449A/PTO			WPTO	Complet If Kn wn		
	STATE	MENT	N DISCLOSURE BY APPLICANT heets as necessary)	Applicati n Number	Continuati n of 09/456,940	
	•			Filing Date	June 27, 2003	
				First Named Inventor	Gjalt W. Huisman	
				Group Art Unit		
			•	Examiner Name		
	1 6	of	6	Attorney Docket Number	MBX 025 DIV CON	

xaminer's Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			
KIK		KENNEDY & BRADSHAW, "Production, properties, and applications of xanthan," <i>Prog. Ind. Microbiol.</i> 19: 319-371 (1984).			
		LE LOIR, et al., "Direct screening of recombinants in gram-positive bacteria using the secreted staphylococcal nuclease as a reporter," J. Bacteriol. 176(16): 5135-5139 (1994).			
		LEE & CHANG, "Production of poly(hydroxyalkanoic acid)," Adv. Biochem. Eng. Biotechnol. 52: 27-58 (1995).			
\top		LIEBL, et al., "Expression, secretion, and processing of staphylococcal nuclease by Corynebacterium glutamicum," J. Bacteriol. 174(6): 1854-1861 (1992).			
		MILLER, ed., Methods in Enzymology: Bacterial Genetic Systems, vol. 204, Academic Press: New York (1991).			
		MILLER, et al., "Secretion and processing of staphylococcal nuclease by Bacillus subtilis," J. Bacteriol. 169(8): 3508-3514 (1987).			
		PEOPLES, et al., *Poly-β-hydroxybutyrate (PHB) biosynthesis in Alcaligenes eutrophus H16. Identification and characterization of the PHB polymerase gene (phbC),* Biol. Chem. 264(26): 15298-15303 (1989).			
		PEOPLES & SINSKEY, "Fine structural analysis of the Zoogloea ramigera phbA-phbB locus encoding β-ketothiolase and acetoacetyl-CoA reductase: nucleotide sequence of phbB," Mol. Microbiol. 3(3): 349-357 (1989).			
		POIRIER, et al., "Production of polyhydroxyalkanoates, a family of blodegradable plastics and elastomers, in bacteria and plants," Bio/Technol. 13: 142-150 (1995).			
RK		POLLOCK, "Gellan-related polysaccharides and the genus Sphingomonas," J. Gen. Microbiol. 139: 1939-1945 (1993).			

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you require to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

+

Signature

¹ Unique citation designation number ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant to place a check mark here if English language Translation is attached.

Under the Pape				brination unless it contains a valid OMB control number	
Substitute for form 1449A/PTO					
			Complet If Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicati n Number	Continuati n of 09/456,940		
	(use	as many s	heets as necessary)		
1				Filing Date	June 27, 2003
				First Named Inventor	Gjalt W. Huisman
				Group Art Unit	
				Examiner Name	
Sheet	6	of	6	Attorney Docket Number	MBX 025 DIV CON

xaminer's I	04.	OTHER ART NON PATENT LITERATURE DOCUMENTS	_
Examiner's Cite Initials* No.		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	•
RX		SAMBROOK, et al., Molecular Cloning, A Laboratory Manual, 2 nd ed., Cold Spring Harbor Laboratory Press: New York (1992).	
		SHORTLE, "A genetic system for analysis of staphylococcal nuclease," Gene 22(2-3): 181-189 (1983).	
11		SPRATT, et al., "Kanamycin-resistant vectors that are analogues of plasmids pUC8, pUC9, pEMBL8, and pEMBL9," Gene 41(2-3): 337-342 (1986).	
		VAN DER KOOIJ, et al., "Growth of <i>Pseudomonas aeruginosa</i> in tap water in relation to utilization of substrates at concentrations of a few micrograms per liter," <i>Appl. Environ. Microbiol.</i> 44(5): 1086-1095 (1982).	
		WELLS, "Extracellular microbial polysaccharides – a critical overview," in Extracellular Microbial Polysaccharides (Sanford, et al., eds.) ACS: Washington, DC, pp. 299-313 (1977).	
RY	/	WILLIAMS & PEOPLES, "Biodegradable plastics from plants," CHEMTECH 26: 38-44 (1996).	_
			_
		1//	
aminer's		Date Considered 2/1/4/	_

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you require to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Signature

¹ Unique citation designation number ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant to place a check mark here if English language Translation is attached.